

LNP Thermocomp® HF-1006 Polyamide 11, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Forms: Pellets Processing Method: Injection Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Thermocomp-HF-1006-Polyamide-11-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0070 cm/cm	0.0060 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	134 MPa	19400 psi	ASTM D638
Tensile Strength, Yield	134 MPa	19400 psi	ASTM D638
Elongation at Break	6.2 %	6.2 %	ASTM D638
Elongation at Yield	5.3 %	5.3 %	ASTM D638
Tensile Modulus	7.38 GPa	1070 ksi	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.21 GPa	901 ksi	ASTM D790
Izod Impact, Notched	2.56 J/cm @Thickness 3.18 mm	4.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	14.3 J/cm @Thickness 3.18 mm	26.8 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	25.3 kJ/m ²	12.0 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	87.8 kJ/m ²	41.8 ft-lb/in ²	ISO 180
Falling Dart Impact	16.7 J	12.3 ft-lb	ASTM D3763
Impact Test	6.72 J	4.96 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	99.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	55.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 260 °C	441 - 500 °F	
Mold Temperature	43.3 - 51.7 °C	110 - 125 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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